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SEQUENCE LISTING

<110> LEUNG, Shui-on
HANSEN, Hans
QU, Zhengxing

<120> GLYCOSYLATED HUMANIZED B-CELL SPECIFIC ANTIBODIES

<130> 018733/1049

<140> US 09/894,839

<141> 2001-06-29

<150> US 09/155,107

<151> 1998-11-17

<150> US 60/013,709

<151> 1996-03-20

<160> 47

<170> PatentIn version 3.1

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<213> Murinae gen. sp.

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gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt	96
Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser	
20 25 30	

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag	144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln	
35 40 45	

tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc	192
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val	
50 55 60	

cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc	240
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	
65 70 75 80	

atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa 288
 Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 85 90 95

tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa 336
 Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

cgt 339
 Arg

<210> 2
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Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
 1 5 10 15

Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 85 90 95

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

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 tca gtg aag atg tcc tgc aag gct tct ggc tac acc ttt act agc tac 96
 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 tgg ctg cac tgg ata aaa cag agg cct gga cag ggt ctg gaa tgg att 144
 Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc 192
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 aag gac aag gcc aca ttg act gca gac aaa tcc tcc agc aca gcc tac 240
 Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 atg caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt 288
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc act ctc 336
 Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110
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 Thr Val Ser Ser
 115

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 1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110

Thr Val Ser Ser
 115

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gat agg gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt 96
 Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg aaa 144
 Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

gca cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc 192
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

cct	tcg	cga	ttc	tct	ggc	agc	gga	tct	ggg	aca	gat	ttt	act	ttc	acc	240
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	
65					70				75						80	

atc	agc	tct	ctt	caa	cca	gaa	gac	att	gca	aca	tat	tat	tgt	cac	caa	288
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	His	Gln	
			85						90						95	

tac	ctc	tcc	tcg	tgg	acg	ttc	ggg	gga	ggg	acc	aag	gtg	cag	atc	aaa	336
Tyr	Leu	Ser	Ser	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Gln	Ile	Lys	
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cgt																339
Arg																

<210> 6
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Asp	Arg	Val	Thr	Met	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser	
		20					25						30			

Ala	Asn	His	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	
	35						40					45				

Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val	
	50				55						60					

Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	
65					70				75						80	

Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	His	Gln	
			85						90						95	

Tyr	Leu	Ser	Ser	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Gln	Ile	Lys	
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Arg

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<220>
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 tca gtg aag gtc tcc tgc aag gct tct ggc tac acc ttt act agc tac 96
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 tgg ctg cac tgg gtc agg cag gca cct gga cag ggt ctg gaa tgg att 144
 Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc 192
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 aag gac aag gcc aca ata act gca gac gaa tcc acc aat aca gcc tac 240
 Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
 65 70 75 80
 atg gag ctg agc agc ctg agg tct gag gac acg gca ttt tat ttt tgt 288
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
 85 90 95
 gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc acg gtc 336
 Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
 100 105 110
 acc gtc tcc tcg 348
 Thr Val Ser Ser
 115

<210> 8
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 <213> Homo sapiens

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
115

<210> 9
<211> 49
<212> PRT
<213> Homo sapiens

<400> 9

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
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Ile

<210> 10
<211> 49
<212> PRT
<213> Homo sapiens

<400> 10

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Ser Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 11

<211> 49

<212> PRT

<213> Homo sapiens

<400> 11

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Asn Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 12

<211> 49

<212> PRT

<213> Homo sapiens

<400> 12

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Asn
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
 35 40 45

Ile

<210> 13
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 13

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
 1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
 20 25 30

Ser Ser Val Val Thr Val Pro Asn Ser Ser Leu Gly Thr Gln Thr Tyr
 35 40 45

Ile

<210> 14
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 14

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
 1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
 20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Asn Gly Thr Gln Thr Tyr
 35 40 45

Ile

<210> 15
<211> 53
<212> PRT
<213> Homo sapiens

<400> 15

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
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Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
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<210> 16
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<212> PRT
<213> Homo sapiens

<400> 16

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Ser Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 17
<211> 53
<212> PRT
<213> Homo sapiens

<400> 17

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Asn Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 18
<211> 53
<212> PRT
<213> Homo sapiens

<400> 18

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Asn Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 19
<211> 53
<212> PRT
<213> Homo sapiens

<400> 19

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Asn Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 20
<211> 113
<212> PRT
<213> Homo sapiens

<400> 20

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Thr Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
85 90 95

Tyr Leu Ser Ser Trp Thr Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
100 105 110

Arg

<210> 21
<211> 116
<212> PRT
<213> Homo sapiens

<400> 21

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
 85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
 100 105 110

Thr Val Ser Ser
 115

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 <213> Artificial Sequence

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 tgacccagtg cagccagtag ctagtaaagg tgtagccaga agccttgtag gagaccttca 120
 ctgatgaccc aggtttcttg acttcagcc 149

<210> 23
 <211> 134
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide

<400> 23
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ctgctcagct ccatgtaggc tgtattggtg gattcgtctg cagttattgt ggccttgtcc 120

ttgaagttct gatt 134

<210> 24

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> synthetic oligonucleotide

<400> 24

ccagctggtc caatcagggg ctgaagtcaa gaaacctg 38

<210> 25

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> synthetic oligonucleotide

<400> 25

aagtggatcc tataatcatt cctaggatta atg 33

<210> 26

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide

<400> 26

taatcctagg aatgattata ctgagtacaa tcagaacttc aaggacaag 49

<210> 27

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

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<400> 27

ggagacggtg accgtggtgc cttggcccca gtagaacgta gtaa 44

<210> 28
 <211> 150
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 28
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 ggccaagtag ttcttgtgat ttgcactgta taaaacactt tgactggact tacagctcat 120
 agtgacccta tctccaacag atgcgctcag 150

 <210> 29
 <211> 52
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 29
 gacaagcttc agctgacca gtctccatca tctctgagcg catctgttgg ag 52

 <210> 30
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 30
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 <210> 31
 <211> 121
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 31
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 c 121

<210> 32
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 32
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 <210> 33
 <211> 33
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 <220>
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 <400> 33
 gaccggcaga tctgcacctt ggtccctcca ccg 33

 <210> 34
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 34
 ccaatcgggt aattcgaatg agagtgtcac agag 34

 <210> 35
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 35
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 <210> 36
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

<400> 36
ggaaggtgga taacgcgtcc caatcgggta a 31

<210> 37
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 37
agcagcaccc taaatttgag caaagcagac t 31

<210> 38
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 38
gagtgtcaca gagaacgtta gcaaggacag cacc 34

<210> 39
<211> 33
<212> DNA
<213> Artificial Sequence

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<210> 40
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 40
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<210> 41
 <211> 37
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 <213> Artificial Sequence

 <220>
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 <400> 41
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 <211> 33
 <212> DNA
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 <220>
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 <400> 42
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 <210> 43
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 43
 gccctccagc agcaacggta cccagaccta catctgc 37

 <210> 44
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 44
 acggtatcga tatgcatgat atcgaatt 28

 <210> 45
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

<400> 45
gtgtcgtgga attcaaccgc cctgaccagc ggc

33

<210> 46
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 46
gtgtcgtgga attcaggcaa cctgaccagc ggc

33

<210> 47
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 47
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33